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## **MEMORANDUM**

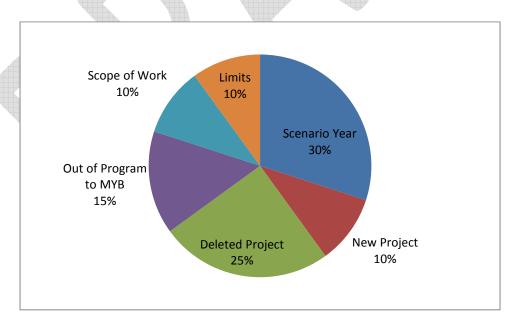
To: Transportation Committee

Date: January 20, 2012

From: CMAP Staff

Re: Semi-annual GO TO 2040/TIP Conformity Analysis & TIP Amendments

In accordance with the biannual conformity analysis policy, CMAP staff asked programmers to submit changes to projects included in the regional air quality analysis of the Transportation Improvement Program (TIP) and GO TO 2040. We received responses from all programmers and specific TIP changes are listed in the attached report. Of the numerous changes requested, twenty projects require air quality conformity analysis. Below is a summary of the changes requested.



Two new projects were included in the TIP and conformity analysis:

• TIP ID 03-12-0022 is adding capacity on Lake-Cook Road from Pfingsten Road to IL 43.

 TIP ID 17-12-0001 is a major transit service improvement along the I-90 corridor between Randall Road & Rosemont.

Two existing projects requested a scope change to add a non-exempt work type. Work types explain the work the project is accomplishing.

- Non-exempt work types may affect air quality and must be tested for conformity. Examples of non-exempt work types are adding lanes to a road, signal timing and extending a rail line.
- Exempt tested work types do not require an air quality conformity analysis, but the region has chosen to include the impacts of the work types in the travel demand model. Exempt tested projects include lane widening to standard (e.g., 10 ft to 12 ft) and new commuter parking lots
- Exempt work types do not require an air quality conformity analysis. Examples of exempt work types are road resurfacing and bus rehabilitation.

The two projects requesting new non-exempt work types are:

- TIP ID 05-07-0004 IL 171 with the addition of auxiliary lanes between 47th & 55th Streets
- TIP ID 11-03-0007 IL 31 expanded capacity between McCullom Lake Road & IL 120.

Five projects are being deleted from the TIP:

- TIP ID 08-07-0003, Thorndale Avenue
- TIP ID 08-99-0031 Eola Road
- TIP ID 09-96-0021 IL 56 Expansion
- TIP ID 10-96-0003 Bradley Road
- TIP ID 12-09-0009 Lily Cache Lane

Two projects requested to extend the original limits of the project:

- TIP ID 10-00-0119 Cedar Lake Road, where the road will extend beyond IL 120 south to Townline Road.
- TIP ID 01-07-0001 CREATE Southwest Service Corridor Improvement which now includes service from Union Station to McCook.

Six projects changed completion year. Completion years indicate when a project is anticipated to be in service to users and determines in which analysis year(s) the project will be included. The current conformity analysis includes four analysis years – 2016, 2020, 2030 & 2040. When a project's completion year moves across analysis years, a new conformity analysis for the project is required.

- Projects moved into the 2016 analysis year include:
  - o TIP ID 09-02-9008 I-90 Northwest Tollway from Newburg Road to Plaza 9
  - o TIP ID 08-00-0020 Eola Road from Montgomery Road to 87th Street
- Projects moved into the 2020 analysis year include:
  - o TIP ID 09-03-0002 Huntley Road
  - o TIP ID 09-00-0029 Fabyan Parkway
  - o TIP ID 10-94-0018 Peterson Road
  - o TIP ID 11-03-0018 Randall Road
- Projects moved out of an analysis year are:
  - o TIP ID 07-96-0013 Joe Orr Road Extension
  - o TIP ID 06-04-0008 IL 7 Wolf Road
  - o TIP ID 16-08-0009 the Circle Line

Each TIP ID includes a hyperlink to the TIP database for further project information, and the changes are also included in the report attached. The TIP map is available at <a href="http://www.cmap.illinois.gov/tip/tip-map">http://www.cmap.illinois.gov/tip/tip-map</a>.

The 2016, 2020, 2030 and 2040 highway and transit networks were coded to include the project changes listed in the "Non-Exempt Projects Requiring Conformity Determination" report. The regional travel demand model was run using the updated networks. The resultant vehicle miles traveled (VMT) by speed and facility type for eight vehicle classes was expanded to the twenty-eight vehicle types needed for use with USEPA's MOBILE model. The on-road emission estimates are the sum of those emissions for each precursor or direct pollutant in each scenario year. Reductions from the National Energy Policy Act Credit and Clean Fuel Fleet Program have not been claimed.

For ozone precursors, the resulting emissions estimates fell below the applicable attainment demonstration SIP budgets.

Since there are no SIP budgets for annual direct PM<sub>2.5</sub> and NOx emissions, these estimates were combined with estimates from northwest Indiana, which is also part of the nonattainment area. The combined direct PM<sub>2.5</sub> and NOx emissions remain below emissions estimates for 2002, the baseline year.

# Northeastern Illinois Transportation Improvement Program TIP Amendment March 8, 2012 Conformity Analysis Summary Results

### Direct PM2.5 and NOx Emissions in Tons per Year for PM2.5 Conformity

[	Fine Particulate Matter			Nitrogen Oxide		
	Northeastern	Northwest	Nonattainment	Northeastern	Northwest	Nonattainment
Year	Illinois	Indiana	area Total	Illinois	Indiana	area Total
2002	3,070.78	562.64	3,633.42	167,630.81	30,397.97	198,028.78
2016	1,066.41	112.30	1,178.71	40,758.40	3,931.12	44,689.52
2020	959.82	104.74	1,064.56	27,518.74	2,733.80	30,252.54
2030	945.01	109.60	1,054.61	18,875.09	1,964.01	20,839.10
2040	1,001.36	122.55	1,123.91	19,268.18	2,111.42	21,379.60
conformity	is demonstrated by	comparison of ana	ilysis year emission	s to the baseline yea	ar (2002)	

## VOC and NOx Emissions in Tons per Summer Day for Ozone Conformity

[	Volatile Organi	c Compounds	Nitrogen Oxides		
	Northeastern		Northeastern		
Year	Illinois	SIP Budget	Illinois	SIP Budget	
2016	60.47	133.78	110.09	284.65	
2020	51.68	73.68	73.55	88.17	
2030	51.09	73.68	48.91	88.17	
2040	55.49	73.68	49.55	88.17	
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#### Notes

Off-model benefits are not included in the total emissions estimates

NIRPC emissions from December 8, 2011 conformity analysis, assuming construction of Cline Avenue Bridge